

Road Inventory Data Dictionary

Field Name	Alias	Type	Precn.	Scale	Length	Edit	Null	Req.	Domain Fixed
OBJECTID	OBJECTID	OID	0	0	4	No	No	Yes	No
Shape	Shape	Geometry	0	0	0	Yes	Yes	Yes	No
RoadSegment_ID	RoadSegment_ID	Integer	0	0	4	Yes	Yes	No	No
FromMeasure	FromMeasure	Double	0	0	8	Yes	Yes	No	No
ToMeasure	ToMeasure	Double	0	0	8	Yes	Yes	No	No
AssignedLength	AssignedLength	Double	0	0	8	Yes	Yes	No	No
AssignedLengthSource	AssignedLengthSource	Small Integer	0	0	2	Yes	Yes	No	No
StreetList_ID	StreetList_ID	Integer	0	0	4	Yes	Yes	No	No
StreetName	StreetName	String	0	0	255	Yes	Yes	No	No
City	City	Small Integer	0	0	2	Yes	Yes	No	No
County	County	String	0	0	255	Yes	Yes	No	No
MunicipalStatus	MunicipalStatus	Small Integer	0	0	2	Yes	Yes	No	No
FromEndType	FromEndType	Small Integer	0	0	2	Yes	Yes	No	No
FromStreetName	FromStreetName	String	0	0	255	Yes	Yes	No	No
FromCity	FromCity	Small Integer	0	0	2	Yes	Yes	No	No
FromState	FromState	Small Integer	0	0	2	Yes	Yes	No	No
ToEndType	ToEndType	Small Integer	0	0	2	Yes	Yes	No	No
ToStreetName	ToStreetName	String	0	0	255	Yes	Yes	No	No
ToCity	ToCity	Small Integer	0	0	2	Yes	Yes	No	No
ToState	ToState	Small Integer	0	0	2	Yes	Yes	No	No
MileageCounted	MileageCounted	Small Integer	0	0	2	Yes	Yes	No	No
RouteKey	RouteKey	String	0	0	20	Yes	Yes	No	No
RouteFrom	RouteFrom	Double	0	0	8	Yes	Yes	No	No
RouteTo	RouteTo	Double	0	0	8	Yes	Yes	No	No
RouteSystem	RouteSystem	String	0	0	255	Yes	Yes	No	No
RouteNumber	RouteNumber	String	0	0	10	Yes	Yes	No	No
SubRoute	SubRoute	String	0	0	10	Yes	Yes	No	No
RouteDirection	RouteDirection	String	0	0	255	Yes	Yes	No	No
RouteType	RouteType	Small Integer	0	0	2	Yes	Yes	No	No
RouteQualifier	RouteQualifier	Small Integer	0	0	2	Yes	Yes	No	No
RPA	RPA	String	0	0	255	Yes	Yes	No	No
MassHighwayDistrict	MassHighwayDistrict	Small Integer	0	0	2	Yes	Yes	No	No
UrbanType	UrbanType	Small Integer	0	0	2	Yes	Yes	No	No
UrbanizedArea	UrbanizedArea	String	0	0	255	Yes	Yes	No	No
FunctionalClassification	FunctionalClassification	Small Integer	0	0	2	Yes	Yes	No	No
Jurisdiction	Jurisdiction	String	0	0	255	Yes	Yes	No	No

NHSStatus	NHSStatus	Small Integer	0	0	2	Yes	Yes	No	No
FederalAidRouteNumber	FederalAidRouteNumber	String	0	0	10	Yes	Yes	No	No
FacilityType	FacilityType	Small Integer	0	0	2	Yes	Yes	No	No
StreetOperation	StreetOperation	Small Integer	0	0	2	Yes	Yes	No	No
AccessControl	AccessControl	Small Integer	0	0	2	Yes	Yes	No	No
TollRoad	TollRoad	Small Integer	0	0	2	Yes	Yes	No	No
NumberOfPeakHourLanes	NumberOfPeakHourLanes	Small Integer	0	0	2	Yes	Yes	No	No
RightSidewalkWidth	RightSidewalkWidth	Small Integer	0	0	2	Yes	Yes	No	No
RightShoulderType	RightShoulderType	Small Integer	0	0	2	Yes	Yes	No	No
RightShoulderWidth	RightShoulderWidth	Small Integer	0	0	2	Yes	Yes	No	No
MedianType	MedianType	Small Integer	0	0	2	Yes	Yes	No	No
MedianWidth	MedianWidth	Small Integer	0	0	2	Yes	Yes	No	No
LeftSidewalkWidth	LeftSidewalkWidth	Small Integer	0	0	2	Yes	Yes	No	No
LeftShoulderType	LeftShoulderType	Small Integer	0	0	2	Yes	Yes	No	No
LeftShoulderWidth	LeftShoulderWidth	Small Integer	0	0	2	Yes	Yes	No	No
SurfaceType	SurfaceType	Small Integer	0	0	2	Yes	Yes	No	No
SurfaceWidth	SurfaceWidth	Small Integer	0	0	2	Yes	Yes	No	No
RightOfWayWidth	RightOfWayWidth	Small Integer	0	0	2	Yes	Yes	No	No
NumberOfTravelLanes	NumberOfTravelLanes	Small Integer	0	0	2	Yes	Yes	No	No
OppositeNumberofTravelLanes	OppositeNumberofTravelLanes	Small Integer	0	0	2	Yes	Yes	No	No
Curbs	Curbs	Small Integer	0	0	2	Yes	Yes	No	No
Terrain	Terrain	Small Integer	0	0	2	Yes	Yes	No	No
SpeedLimit	SpeedLimit	Small Integer	0	0	2	Yes	Yes	No	No
StructuralCondition	StructuralCondition	Small Integer	0	0	2	Yes	Yes	No	No
ADT	ADT	Integer	0	0	4	Yes	Yes	No	No
ADTStationNumber	ADTStationNumber	Integer	0	0	4	Yes	Yes	No	No
ADTDerivation	ADTDerivation	Small Integer	0	0	2	Yes	Yes	No	No
ADTYear	ADTYear	Small Integer	0	0	2	Yes	Yes	No	No
IRI	IRI	Small Integer	0	0	2	Yes	Yes	No	No
IRIYear	IRIYear	Small Integer	0	0	2	Yes	Yes	No	No
IRIStatus	IRIStatus	Small Integer	0	0	2	Yes	Yes	No	No

Road Inventory Data Dictionary

PSR	PSR	Small Integer	0	0	2	Yes	Yes	No	No
PSRYear	PSRYear	Small Integer	0	0	2	Yes	Yes	No	No
HPMSCode	HPMSCode	Small Integer	0	0	2	Yes	Yes	No	No
HPMSSample_ID	HPMSSample_ID	String	0	0	12	Yes	Yes	No	No
AddedRoadType	AddedRoadType	Small Integer	0	0	2	Yes	Yes	No	No
DateActive	DateActive	Date	0	0	8	Yes	Yes	No	No
LifeCycleStatus	LifeCycleStatus	Small Integer	0	0	2	Yes	Yes	No	No
RoadInventory_ID	RoadInventory_ID	Integer	0	0	4	Yes	Yes	No	No

Field Descriptions

OBJECTID: ArcGIS internal identifier

Shape: ArcGIS geometry field

RoadSegment_ID: The identifier of the *RoadSegment* feature on which this *RoadInventory* feature lies

FromMeasure: The measured length along the specified *RoadSegment* feature where this *RoadInventory* segment starts

ToMeasure: The measured length along the *RoadSegment* feature where this *RoadInventory* segment ends

AssignedLength: Segment length in miles

AssignedLengthSource: Defines the source of the assigned length value

- 0 = Shape length
- 1 = Odometer
- 2 = Odometer prorated from CSN pair (60000-rule) during migration from coverage model

StreetList_ID: The identifier of the Street the segment lies on

StreetName: The name of the street the segment lies on

City

1= Abington ... 351 = Yarmouth

County

- A = Barnstable
- B = Berkshire
- C = Bristol
- D = Dukes
- E = Essex
- F = Franklin
- G = Hampden
- H = Hampshire
- I = Middlesex
- J = Nantucket
- K = Norfolk
- L = Plymouth
- M = Suffolk
- N = Worcester

MunicipalStatus

- 1 = City
- 2 = Town

FromEndType: Defines the start of the street the segment lies on

- 1 = Cross-street
- 2 = Dead end
- 3 = Cul-de-sac
- 4 = Private property
- 5 = Town line
- 6 = State line

FromStreetName: The cross-street where the street starts when the street starts at a cross-street

FromCity: The city where the street starts when the street starts at a city boundary

1= Abington ... 351 = Yarmouth

FromState: The state where the street starts when the street starts at a state boundary

1 = Connecticut
2 = New Hampshire
3 = New York
4 = Rhode Island
5 = Vermont

ToEndType Defines the end of the street the segment lies on

1 = Cross-street
2 = Dead end
3 = Cul-de-sac
4 = Private property
5 = Town line
6 = State line

ToStreetName: The cross-street where the street starts when the street ends at a cross-street

ToCity: The city where the street ends when the street ends at a city boundary

1= Abington ... 351 = Yarmouth

ToState: The state where the street ends when the street ends at a state boundary

1 = Connecticut
2 = New Hampshire
3 = New York
4 = Rhode Island
5 = Vermont

MileageCounted: Describes whether the segment's length is counted towards the official statewide road centerline mileage

1 = Yes
0 = No

Note – See Facility Type

RouteKey: The primary state numbered route or designated “non-numbered” route on which this segment lies; when more than one route traverse a segment, the *highest order* (Interstate > US Highway > State Route), *lowest number* route is primary; “non-numbered” routes are used internally by Planning for pavement data collections

RouteFrom: The measured length along the specified *Route* where this *RoadInventory* segment starts

RouteTo: The measured length along the specified *Route* where this *RoadInventory* segment ends

RouteSystem

I = Interstate
US = US Highway
SR = State Route
0 = Not a numbered route

RouteNumber: The official route number designation; need not be exclusively numeric (*I46A*, for example)

SubRoute: Optional designation to distinguish alternate sections of the same numbered route

RouteDirection

NB = North
EB = East
SB = South
WB = West

RouteType

0 = Non-numbered
1 = Numbered-Primary (NB/EB)
2 = Numbered-Opposing (SB/WB)

RouteQualifier: (Reserved for future use -- not implemented at this time)

0 = No Qualifier or Not Signed or Not Applicable
1 = Alternate
2 = Business Route
3 = Bypass
4 = Spur
5 = Loop
6 = Proposed
7 = Temporary
8 = Truck Route
9 = None of the Above

RPA: Regional Planning Agency

BRPC Berkshire Regional Planning Commission
CCC Cape Cod Commission
CMRPC Central Massachusetts Regional Planning Commission
FRCOG Franklin Regional Council of Governments
MAPC Metropolitan Area Planning Council
MRPC Montachusett Regional Planning Commission
MVC Martha's Vineyard Commission
MVPC Merrimack Valley Planning Commission
NMCOG Northern Middlesex Council of Governments
NPEDC Nantucket Planning and Economic Development Commission
OCPC Old Colony Planning Council
PVPC Pioneer Valley Planning Commission
SRPEDD Southeastern Regional Planning and Economic Development District

MassHighwayDistrict

MinValue: 1
MaxValue: 5

UrbanType

1 = Urbanized area
2 = Urban cluster
5 = Rural

UrbanizedArea

0 = RURAL
7 = Boston (MA-NH-RI)
26 = Providence (RI-MA)
43 = Springfield (MA-CT)
76 = Worcester (MA-CT)
127 = New Bedford
189 = Leominster-Fitchburg
199 = Pittsfield

246 =	Nashua (NH-MA)
394 =	Barnstable Town
A =	Amherst
B =	Athol
C =	Great Barrington
D =	Greenfield
E =	Lee
F =	Nantucket
G =	North Adams (MA-VT)
I =	Pepperell
K =	Stafford (CT-MA)
L =	Vineyard Haven
M =	Ware
O =	Winchendon (MA-NH)

Functional Classification: *Note: use urban/rural designation to interpret functional classification*

0 =	Local
1 =	Interstate
2 =	Rural or urban principal arterial
3 =	Rural minor arterial or urban principal arterial
5 =	Urban minor arterial or rural major collector
6 =	Urban collector or rural minor collector

Jurisdiction

1 =	Massachusetts Highway Department
2 =	City or Town accepted road
3 =	Department of Conservation and Recreation
4 =	Massachusetts Turnpike Authority
5 =	Massachusetts Port Authority
6 =	State Park or Forest
7 =	State Institutional
8 =	Federal Park or Forest
0 =	Unaccepted by city or town
B =	State college or university
C =	US Department of Defense
D =	US Army Corps of Engineers
E =	Federal Institutional
F =	Other Federal
G =	Federal Bureau of Indian Affairs
H =	Private

NHSStatus: National Highway System Status

0 =	Not on NHS
1 =	NHS - Interstate
2 =	NHS - Strategic Defense Highway System (STRAHNET)
3 =	NHS - STRAHNET Connector
4 =	NHS - Other - One-way pair
5 =	NHS - Other truck route exclusion
6 =	NHS - Major Airport
7 =	NHS - Major Port Facility
8 =	NHS - Major Amtrak Station
9 =	NHS - Major Rail/Truck terminal
10 =	NHS - Major Intercity Bus Terminal
11 =	NHS - Major Public Transit or Multi-Modal Passenger Terminal
12 =	NHS - Major Pipeline Terminal
13 =	NHS - Major Ferry Terminal
14 =	NHS - Other (not in above categories)

FederalAidRouteNumber: Maintained for historical purposes

FacilityType

- 1 = Mainline roadway*
- 2 = Bridge*
- 3 = Tunnel*
- 4 = Doubledeck*
- 5 = Rotary*
- 6 = Causeway*
- 7 = Simple ramp
- 8 = Ramp - NB/EB
- 9 = Ramp - SB/WB
- 10 = Collector - Distributor

*Road types included in official statewide road centerline mileage

StreetOperation

- 1 = One-way traffic
- 2 = Two-way traffic

AccessControl

- 0 = No control
- 1 = Full control
- 2 = Partial control

TollRoad

- 0 = Not a toll road
- 1 = A toll road

NumberOfPeakHourLanes: Number of lanes open for vehicles during Peak travel times including breakdown and high-occupancy vehicle lanes

RightSidewalkWidth: Width of the sidewalk in feet on the right side of the road traveling in the primary (NB/EB) direction of travel

RightShoulderType: Type of shoulder on the right side of the road traveling in the primary (NB/EB) direction of travel

- 0 = No Shoulder
- 1 = Stable - Unrutable compacted subgrade
- 2 = Unstable shoulder
- 3 = Hardened bituminous mix or penetration
- 4 = Combination shoulder

RightShoulderWidth: Width of shoulder in feet on the right side of the road traveling in the primary (NB/EB) direction of travel

MedianType: Type of median on divided roadways

- 0 = None
- 1 = Curbed
- 2 = Positive barrier
- 3 = Unprotected

MedianWidth: Width of median in feet on divided roadways

MinValue: 1
MaxValue: 999

LeftSidewalkWidth: Width of the sidewalk in feet on the left side of the road traveling in the primary (NB/EB) direction of travel; on divided roadways, this will fall on the opposing direction (see illustration)

LeftShoulderType: Type of shoulder on the left side of the road traveling in the primary (NB/EB) direction of travel; for divided roadways median shoulders are assumed to be of the same type

- 0 = No Shoulder
- 1 = Stable - Unruttable compacted subgrade
- 2 = Unstable shoulder
- 3 = Hardened bituminous mix or penetration
- 4 = Combination shoulder

LeftShoulderWidth: Width of shoulder in feet on the left side of the road traveling in the primary (NB/EB) direction of travel; for divided roadways median shoulders are assumed to be of the same type

SurfaceType

- 1 = Unimproved, graded earth, or soil surface road
- 2 = Gravel or stone road
- 3 = Brick road
- 4 = Block road
- 5 = Surface-treated road
- 6 = Bituminous concrete road
- 7 = Portland cement concrete road
- 8 = Composite road; flexible over rigid
- 9 = Composite road; rigid over flexible or rigid over rigid ("white topping")

SurfaceWidth: Surface width in feet; measurement of traveled way, excluding shoulders/auxiliary lanes

RightOfWayWidth: Right-of-way width in feet

NumberOfTravelLanes: Number of travel lanes (for undivided roadways, number of lanes in both directions of travel, for divided roadways, number of lanes on the given segment only)

MinValue: 1
MaxValue: 6

OppositeNumberOfTravelLanes: Number of travel lanes in the opposite direction of a divided roadway

MinValue: 1
MaxValue: 6

Curbs

- 0 = None
- 1 = Left side only
- 2 = Right side only
- 3 = Both sides
- 4 = Along median only
- 5 = All curbs (divided highway)

Terrain

- 1 = Level
- 2 = Rolling
- 3 = Mountainous

SpeedLimit

MinValue: 5
MaxValue: 65

StructuralCondition

- 1 = Good
- 2 = Fair
- 3 = Deficient
- 4 = Intolerable

ADT: Average Annual Daily Traffic

ADTStationNumber: ADT count station location number; used to reference Traffic Data Collection's counting station number

ADTDerivation

- 0 = Not applicable
- 1 = Derived from counts collected on or adjacent to the section during the current year
- 2 = Derived from factoring counts from the previous year count-base AADT that is less than three years old
- 3 = Derived from count data that is three or more years old
- 4 = Derived from an estimate
- 5 = Working code for principal arterial counting program

ADTYear: Year of ADT collection

IRI: Pavement Roughness; value reflects calibrated value in inches of roughness per mile

IRIYear: Year of IRI collection

IRIStatus

- 1 = IRI data collected
- 2 = No IRI data collected due to speed
- 3 = No IRI data collected due to construction
- 4 = No data collected due to bridge deck

PSR: Pavement Serviceability Rating

PSRYear: Year of PSR collection

HPMSCode

- 0 = Not an HPMS section nor on a road that has an HPMS section
- 1 = Not an HPMS section but is on a road that has an HPMS section
- 2 = An HPMS section

HPMSSample_ID: The HPMS Sample identifier for sections lying on a designated HPMS sample

AddedRoadType: Description of roads added to the GIS from the 1:5000-scale centerlines

- 0 = Default/Not applicable
- 1 = Public road (but not highway ramp)
- 3 = Highway ramp
- 4 = Road appears in 1:5000-scale centerline file, but not in DLG or orthophotos
- 5 = Research park, industrial park, office park, shopping mall or center, condominium complex or subdivision
- 6 = Airport passenger or cargo area, port access road, intermodal terminal access road, or major truck terminal
- 7 = Treatment plant, electrical plant, petroleum depot, town or state facility, or other water, sewer, power, or communication facility
- 8 = State park or other recreational area
- 9 = Cul-de-sac
- 10 = Other private road
- 11 = Rest area

DateActive: The date the road became active, or, if not known, the date it was entered into the system; all roads active when this field was implemented were assigned a date 1/1/2004

LifeCycleStatus

- 1 = Proposed
- 2 = In Construction
- 3 = Active

RoadInventory_ID: A sequential identifier assigned to each *RoadInventory segment*